In re Application of NATHAN et al. Application Serial No. 09/541,461

AMENDMENTS TO THE CLAIMS

1-18. (Canceled)

19. (Currently amended) A method for securing data communication between a client in an internal network and a server in an external network by way of a <u>an application-level gateway</u> proxy server in the internal network, the method comprising:

performing, at the proxy server, a network address translation upon a stream of packets originating from the client, wherein the network address translation is performed at a packet level;

filtering, at the proxy server, the stream of packets, such that wherein the filtering is transparent to the client, and wherein the filtering is performed at a stream level; and transmitting, at the proxy server, the packets to the server after the packets are filtered.

20. (Currently amended) The method of claim 19, further comprising:

filtering, at the proxy server, a second stream of packets originating from the server in the external network, wherein the filtering is transparent to the client, and wherein the filtering is performed at a stream level;

performing, at the proxy server, a reverse network address translation upon the packets in the second stream, wherein the reverse network address translation is performed at a packet level; and

transmitting, at the proxy server, the packets in the second stream after the packets are filtered.

21. (Currently amended) A computer-readable medium having instructions stored thereon for execution by a processor to perform the a method of claim 19 for securing data communication between a client in an internal network and a server in an external network by way of an application-level gateway proxy server in the internal network, the method comprising:

performing, at the proxy server, a network address translation upon a stream of packets

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originating from the client, wherein the network address translation is performed at a packet level:

filtering, at the proxy server, the stream of packets, wherein the filtering is transparent to the client, and wherein the filtering is performed at a stream level; and transmitting, at the proxy server, the packets to the server after the packets are filtered.

- 22. (Currently amended) A system for securing data communication across an external computer network, comprising:
 - a client located in an internal computer network;
- a server located in the external computer network and in communication with the client;
- a <u>an application-level gateway</u> proxy device <u>located</u> in the internal computer network and comprising components for (1) performing, at a packet level, a network address translation upon a stream of packets originating from the client and (2) filtering, at a stream level, the stream of packets and transmitting the packets to the server, wherein such that the filtering is transparent to the client.
- 23. (Currently amended) The system of claim 22, wherein the components of the proxy device comprise:
- a first component for filtering said stream of packets, and also for filtering, at a stream level and transparently to the client, a second stream of packets originating from the server; and
- a second component for performing said network address translation, and also for performing, at a packet level, a reverse network address translation upon with respect to the packets in the second stream and transmitting the packets in the second stream to the client.
- 24. (Currently amended) A <u>An application-level gateway</u> proxy device located in an internal network, comprising:

toutines a component for performing, at a packet level, a network address translation upon with respect to a stream of packets originating from a client in the internal network, where wherein the client is communicating the stream of packets to a server located in an external network;

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routines a component for filtering, at a stream level, the stream of packets, wherein such that the filtering is transparent to the client; and

routines a component for transmitting the packets to the server after the packets are filtered.

25. (Currently amended) The proxy device of claim 24, further comprising: routines a component for filtering, at a stream level and transparently to the client, a second stream of packets originating from the server;

routines a component for performing, at a packet level, a reverse network address translation upon the packets in the second stream; and

routines a component for transmitting the packets in the second stream to the client.

26. (New) The computer-readable medium of claim 21, wherein the method further comprises:

filtering, at the proxy server, a second stream of packets originating from the server in the external network, wherein the filtering is transparent to the client, and wherein the filtering is performed at a stream level:

performing, at the proxy server, a reverse network address translation upon the packets in the second stream, wherein the reverse network address translation is performed at a packet level; and

transmitting, at the proxy server, the packets in the second stream after the packets are filtered.